

### **0403200 Statics**

(3 Credit hours, Prerequisite 0302101 General Physics 1)

Introduction to Mechanics, definition of static problems, force systems, rectangular components, moments, couples, resultants, equilibrium, construction of free-body diagram, constraints and statically indeterminacy, structure types, trusses analysis, distributed load, center of pressure, moment of inertia, shear force and bending moments diagrams and combined loading.